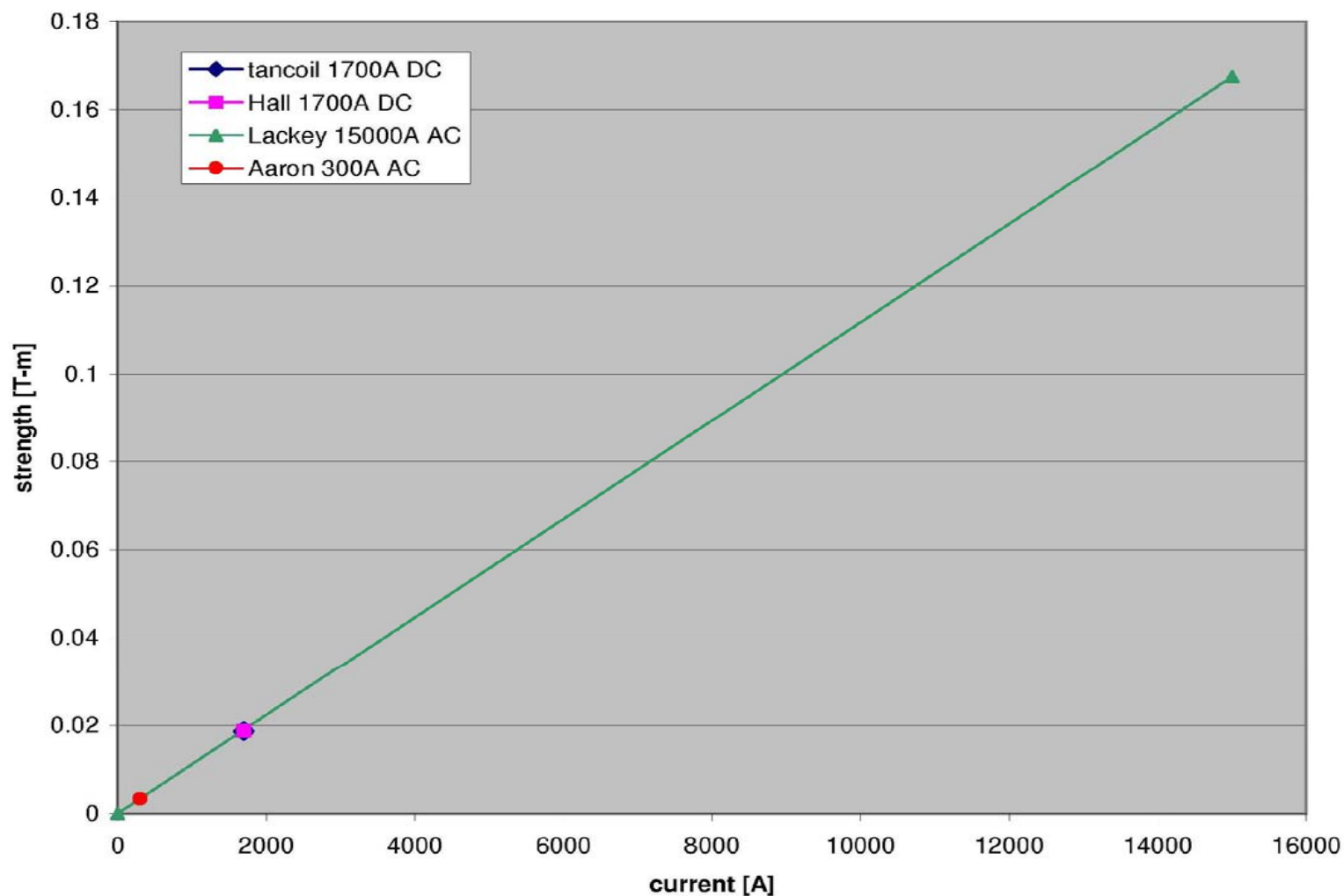


Harmonic Analysis of ORBD001-000

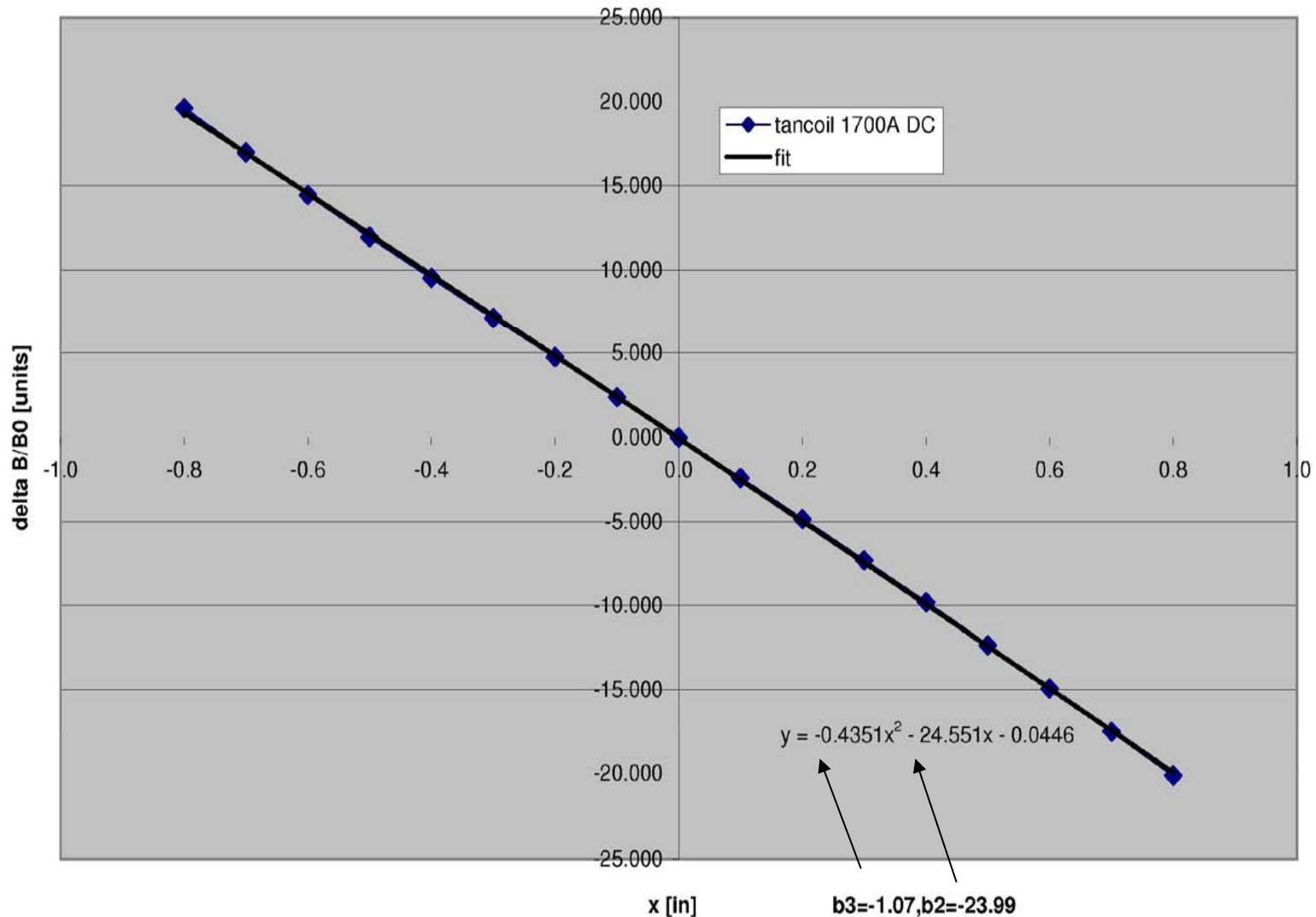
Comparison of the different methods

- “Lackey” AC measurement
 - 15000 A AC
 - Bdot fixed coil (single-turn wire loop)
- “Aaron” AC measurement
 - 300 A AC
 - Morgan rotating coil
- “Hall” DC measurement
 - 1700A DC
 - Hall probe x-z scan
- “tancoil” DC measurement
 - 0, 500, 1500, 1700 A DC
 - Tangential rotating coil



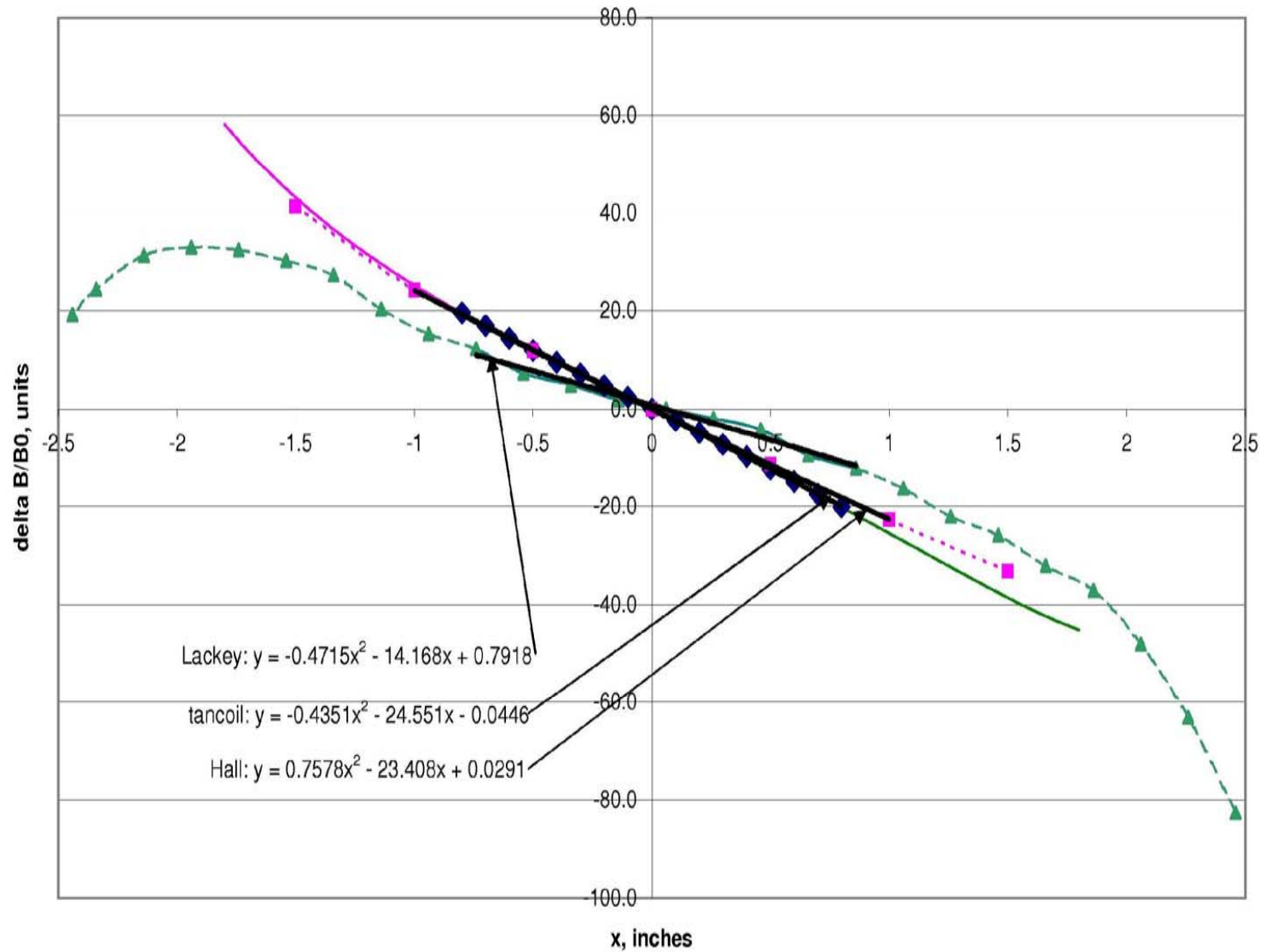
Strength agrees well among the four measurements

ORBD001-000, tancoil, x=0



Since 2nd order polynomial fit to tancoil data approximately reproduces precisely determined tancoil b_n , it may be reasonable to use polynomial fit to extract b_n from other data

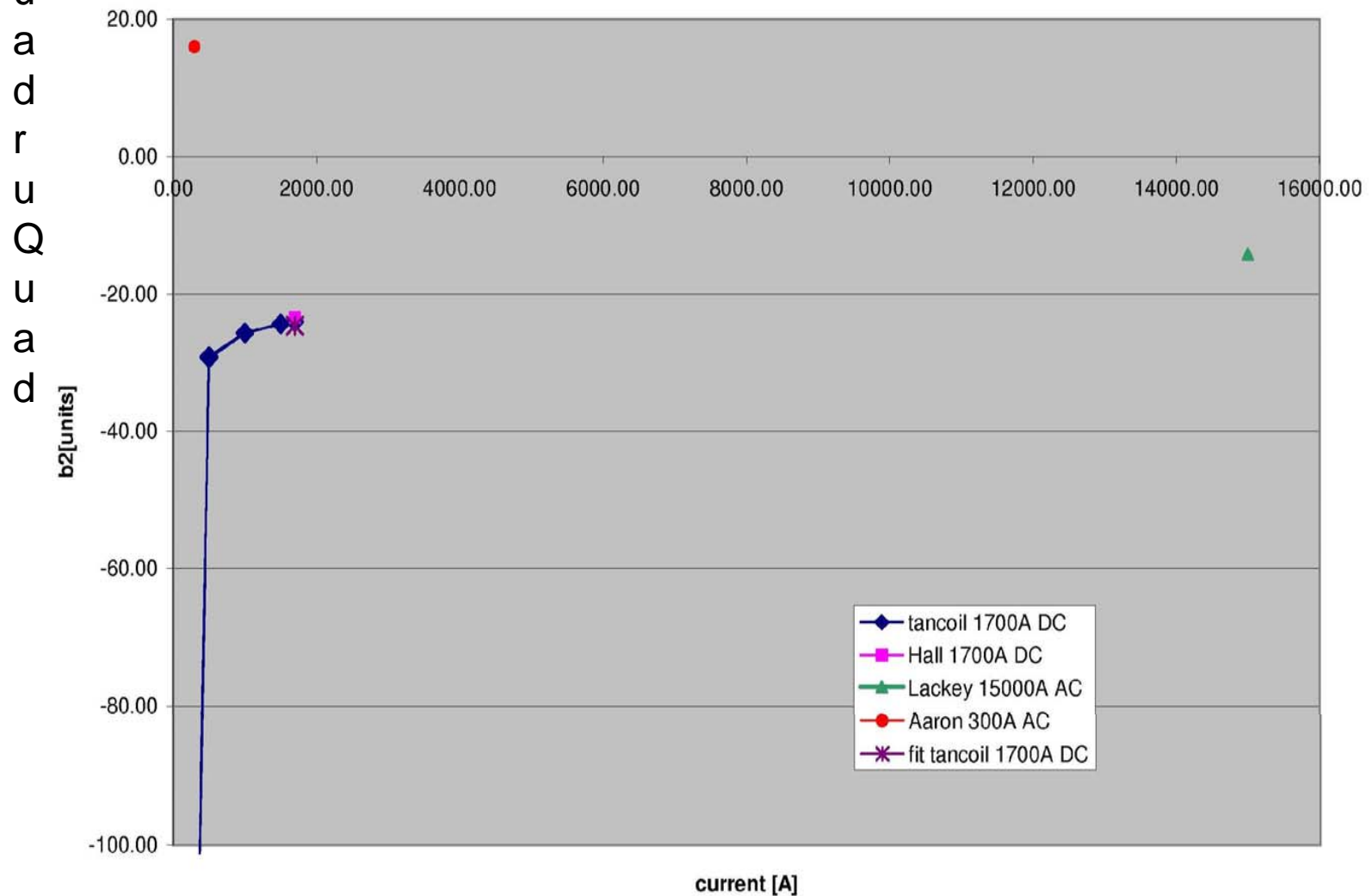
ORBD001-000, field shapes compared using AC and DC measurements



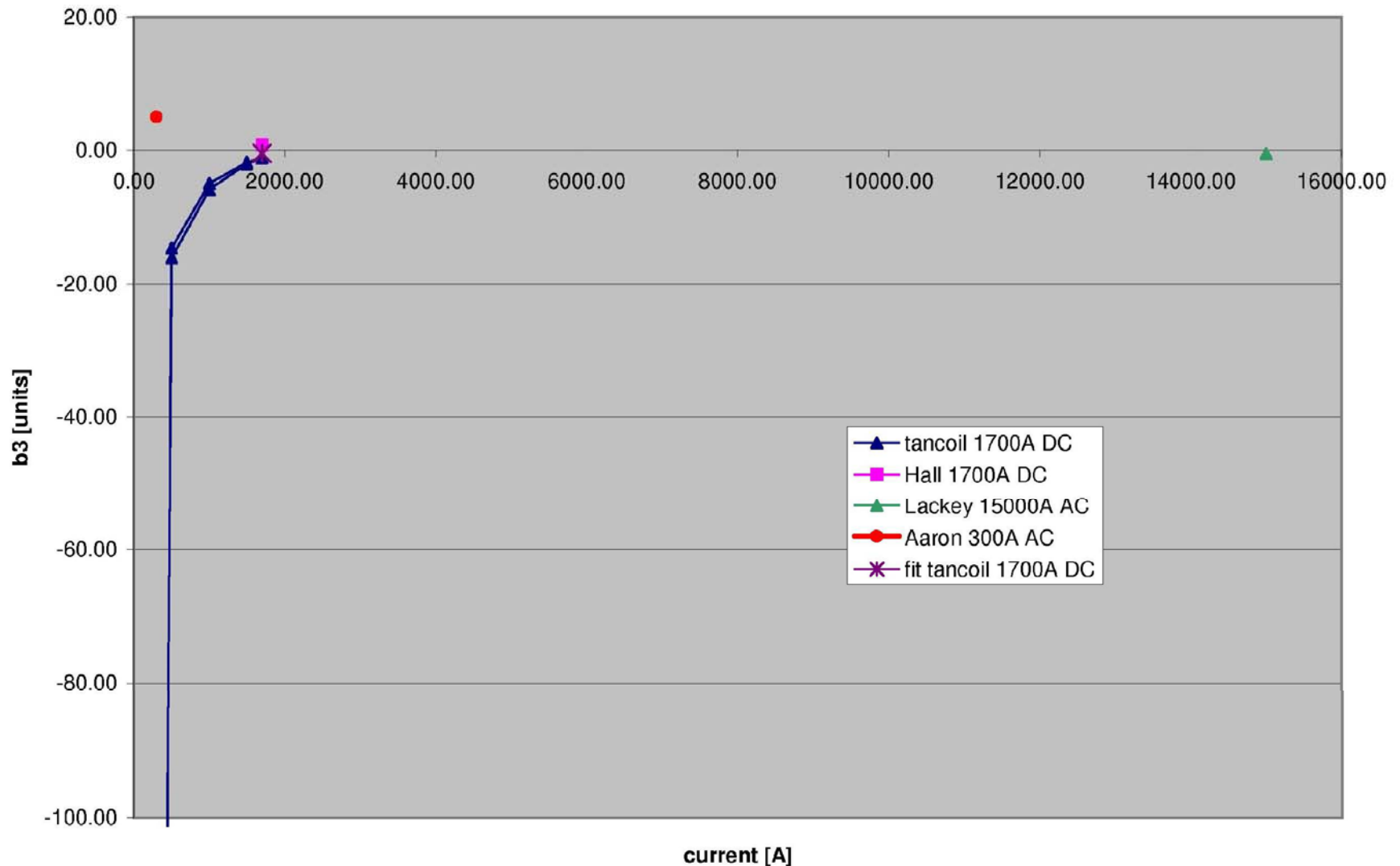
Quadrupole component

b2 comparison

ORBD001-000



“Lackey” measurement may agree with “tancoil” measurement,
But “Aaron” measurement does not



“Lackey” measurement may agree with “tancoil” measurement,
But “Aaron” measurement does not